



# **Modem Command Guidelines**

## HP Notebook Series

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This document provides instructions for selecting, accessing, and using the AT command set supported by the modem in your notebook.

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# Modem Command Guidelines

This guide provides instructions for selecting, accessing, and using the AT command set supported by the modem in your notebook.

For help with specific modem problems, go to the modem manufacturer's Web site, or refer to the *Worldwide Telephone Numbers* booklet to contact a HP Customer Care Center.

## Accessing HyperTerminal

Modem commands can be entered in HyperTerminal, which is included with all Microsoft Windows operating systems.

To access HyperTerminal:

- In Windows XP Professional, select Start > All Programs > Accessories > Communications > HyperTerminal.
- In Windows 2000 Professional, select Start > Programs > Accessories > Communications > HyperTerminal.

## Selecting a Command Set

Command sets are modem-specific. To use modem commands successfully, you must use the command set supported by the modem in your notebook.

## Identifying Your Modem

To display the model name of the modem in your notebook:

1. Select Start.
2. Right-click My Computer > Properties > Hardware tab > Device Manager button.
3. Double-click Modems. (An icon and name for your modem is displayed.)
4. Double-click the modem name icon. (The modem model name is displayed.)

## Accessing Your Command Set

After you identify the model name of your notebook, refer to the modem manufacturer's Web site to obtain an updated command set.

## Using Commands on the Notebook

### Entering a Command

When entering modem commands on the notebook:

- You must start every AT command line (except the A/ and +++ commands) with the attention (AT) code characters. If you do not begin the command line with the attention (AT) code characters, the modem will not execute the command.
- You must type the AT prefix in the same case (AT or at, not At or aT).
- You may type commands following the AT prefix in all uppercase, all lowercase, or any combination of uppercase and lowercase letters.
- You may enter telephone numbers with or without punctuation, for example, (123) 456-7890 or 1234567890.

## **Editing a Command**

If you make an error while typing a command, backspace over the error, then retype. You cannot backspace over the AT prefix because it is interpreted immediately after it is typed.

## **Executing a Command**

To execute a command line, press **enter**. (Pressing **enter** instructs the modem to process the command line.)

## **Repeating a Command**

To repeat the last command line issued, enter the *A/* command. When repeating the *A/* command, it is not necessary to enter the AT prefix or press **enter**, because issuing the *A/* command repeats the AT prefix and **enter** function.

The last command entered remains in the command buffer until the modem is reset or power to the modem is turned off. Both actions clear the buffer. The *A/* command is invalid while the buffer is clear.

## **Omitting a Parameter in a Command Line**

If you enter a command that normally includes a numeric parameter, such as *ATHn*, without entering the numeric parameter, the value of the numeric parameter is assumed to be the default parameter.

For example, the *Hn* (hang-up) command can have a numeric parameter of zero (*H0*), which is the default, or of one (*H1*). If neither parameter is entered, *ATH* plus **enter** is the equivalent of *ATH0* plus **enter**.

This rule does not apply to the *D* (dial) command.

## **Setting the Result Code Format**

A result code is the response of the modem to a command. It may be issued in either of two formats: words (the long form, also known as verbose) or numeric characters (the short form, represented by digits).

The result code format is set using the `Vn` command:

- Use `V1` for words (default).
- Use `V0` for numeric characters.

## **Setting Local Character Echo**

Local echo is a process that transmits received data back to the sending station and allows you to see what data was received. If your typing is not displayed on the screen, local echo is turned off.

Local echo preferences are set using the `En` command:

- Use `E0` for no local echo.
- Use `E1` to enable local echo.

## Using Online Mode and Online Command Mode

Online mode is used for data transfer; online command mode is used for entering commands.

### Switching to Online Command Mode

To escape from online mode and enter online command mode, press and hold **shift** as you type **+++**.

When you have correctly entered this escape command:

- An OK result code is displayed.
- The established connection is maintained, but input is interpreted locally and not transmitted to the remote connection.

### Switching to Online Mode

To escape from online command mode and enter online mode, use either of the following methods:

- Enter the AT0 (letter “O”) command.
- Terminate the connection with the ATH0 (digit “0”) command.



## Creating a Command Mode Shortcut Icon

You can create a Windows shortcut icon for accessing HyperTerminal in online command mode. To place a Command shortcut icon on the Windows desktop:

1. Create a Command icon in HyperTerminal.
- 



To access HyperTerminal:

- In Windows XP Professional, select Start > All Programs > Accessories > Communications > HyperTerminal.
  - In Windows 2000 Professional, select Start > Programs > Accessories > Communications > HyperTerminal.
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- a. In the Name field, type:  
Command
  - b. Select OK. (The Connect To dialog box is displayed.)
  - c. In the Connect Using field, select the COM port used by your modem.
- 



To identify the COM port used by your modem:

- In Windows XP Professional, select Start > Control Panel > Printers and Other Hardware icon > Phone and Modem Options icon > Modems tab.
  - In Windows 2000 Professional, select Start > Settings > Control Panel > Phone and Modem Options > Modems.
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- d. Select OK. (The Port Settings tab is displayed.)
- e. Select OK. (The command mode screen is displayed with a flashing cursor in the upper left corner. The modem can now receive a command and respond to the command with a result code.)

- f. Select File > Save. (A Command icon is created, but is not visible until you exit HyperTerminal.)
  - g. To exit HyperTerminal, select File > Exit.
2. To access the Command icon:
- h. In Windows XP Professional, select Start > All Programs > Accessories > Communications > HyperTerminal.
  - i. In Windows 2000 Professional, select Start > Programs > Accessories > Communications > HyperTerminal.
3. To create a shortcut to the Command icon, select the Command icon, then select File > Create Shortcut. (The shortcut to the Command icon is displayed in the HyperTerminal window.)
4. To place the shortcut icon on the desktop, select the shortcut icon, then drag it to the desktop.
5. To exit and close HyperTerminal, select File > Exit.